

TEST DATA OF HFA3500TF-65

Regulated DC Power Supply

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COSEL CO.,LTD.

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(Final Page 15)

Model		HFA3500TF-65	
Item		Input Current (by Load Current)	
Object		+65V54A	
1.Graph		2.Values	

—△—

Input Voltage 200V

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Input Voltage 400V

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Input Voltage 480V

Note: Hatched line shows the range of the rated load current.

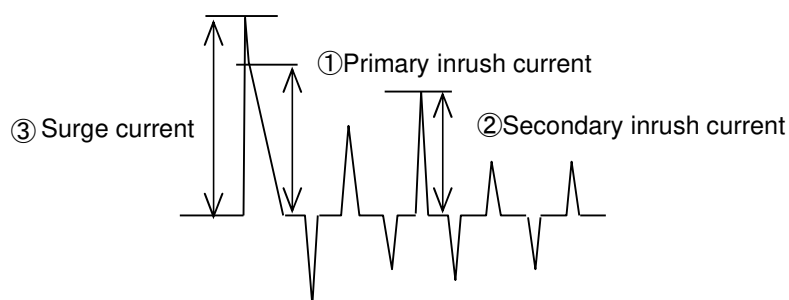
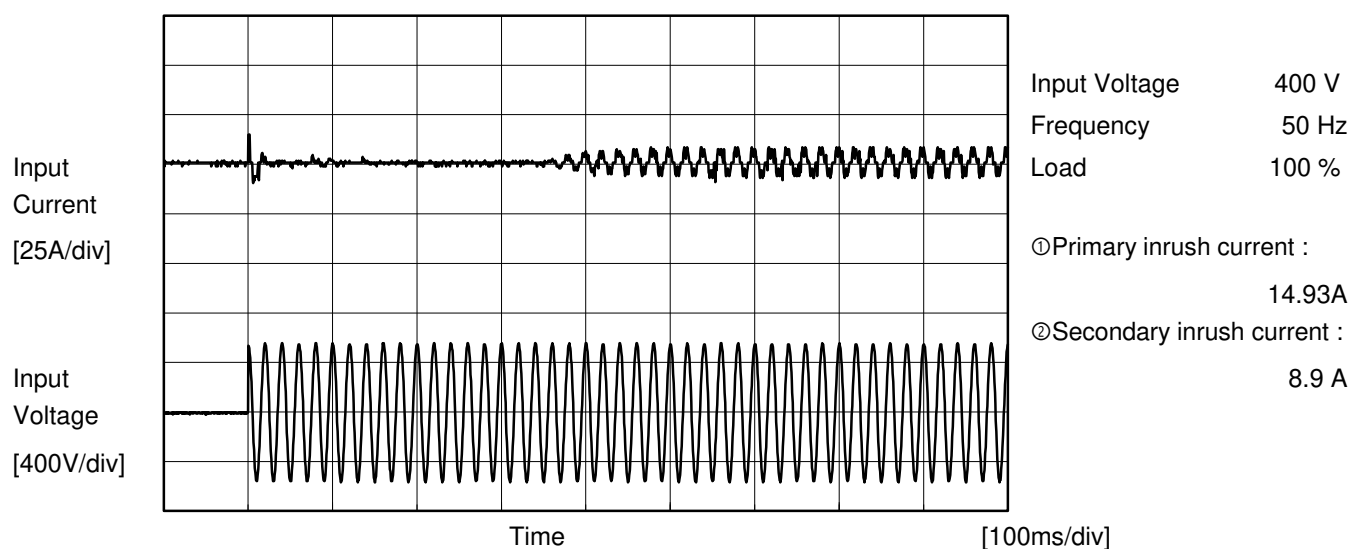
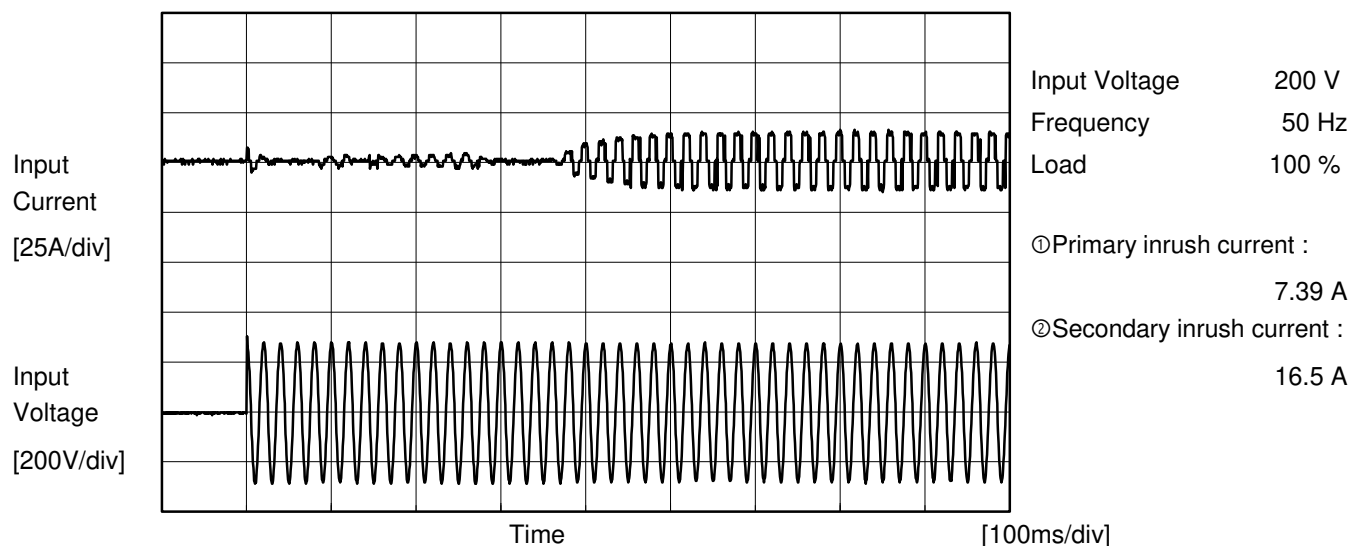
Load Current [A]	Input Current [A]		
	Input Voltage 200[V]	Input Voltage 400[V]	Input Voltage 480[V]
0.0	0.127	0.117	0.112
5.0	1.240	0.674	0.610
10.0	2.255	1.175	1.017
15.0	3.300	1.683	1.434
20.0	4.300	2.169	1.842
25.0	5.338	2.685	2.278
30.0	6.393	3.204	2.727
40.0	8.545	4.272	3.636
50.0	10.725	5.348	4.531
54.0	11.610	5.779	4.893
59.4	12.820	6.363	5.376

<div>ModelHFA3500TF-65</div> <div>ItemEfficiency (by Load Current)</div> <div>Object+65V54A</div>		<div>Temperature25°C</div> <div>Testing CircuitryFigure A</div>
<div>1.Graph</div> <div><div><div><div><div></div></div><div>Input Voltage 200V</div></div><div><div><div></div></div><div>Input Voltage 400V</div></div><div><div><div></div></div><div>Input Voltage 480V</div></div></div><div><div><div>Efficiency [%]</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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Model		HFA3500TF-65	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		+65V54A	



※ The specification of the primary inrush current means that the surge current to a built-in noise filter (0.2msec or less : waveform ③) is excluded.



Model		HFA3500TF-65	Temperature 25°C Testing Circuitry Figure B
Item		Leakage Current	
Object		+65V54A	

1.Results

[mA]

Standards	Testing Circuitry	Phase	Input Voltage			Note
			200[V]	400[V]	480[V]	
IEC62368-1	FigureB-1	Full phase	0.80	1.80	2.00	
		Phase loss	0.01	0.01	0.01	
	FigureB-2	Full phase	0.80	1.80	2.00	
		Phase loss	0.01	0.01	0.01	

2.Condition

Leakage current value is concluded after measuring all phase of AC input and choosing the largest one.

Model		HFA3500TF-65	
Item		Line Regulation	
Object		+65V54A	

1.Graph

□

Load 50%

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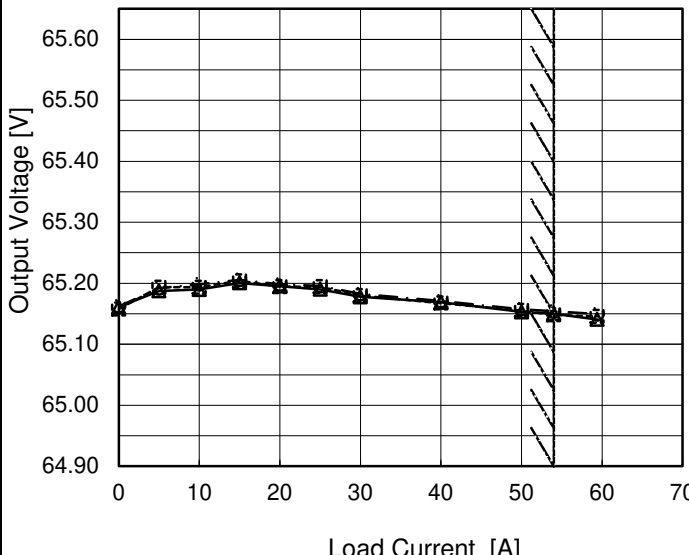
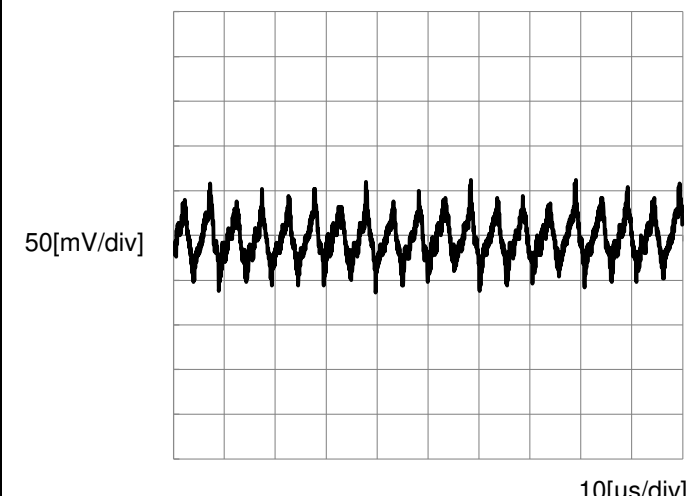
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Load 100%

Output Voltage [V]

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Model	HFA3500TF-65	Temperature	25°C																																																			
Item	Load Regulation	Testing Circuitry	Figure A																																																			
Object	+65V54A																																																					
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Voltage 200V</div></div><div><div>---□---</div><div>Input Voltage 400V</div></div><div><div>---○---</div><div>Input Voltage 480V</div></div></div>  <p>Note: Hatched line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Voltage 200[V]</th><th>Input Voltage 400[V]</th><th>Input Voltage 480[V]</th></tr><tr><td>0.0</td><td>65.161</td><td>65.158</td><td>65.162</td></tr><tr><td>5.0</td><td>65.187</td><td>65.193</td><td>65.192</td></tr><tr><td>10.0</td><td>65.190</td><td>65.193</td><td>65.199</td></tr><tr><td>15.0</td><td>65.200</td><td>65.204</td><td>65.206</td></tr><tr><td>20.0</td><td>65.195</td><td>65.195</td><td>65.198</td></tr><tr><td>25.0</td><td>65.190</td><td>65.194</td><td>65.196</td></tr><tr><td>30.0</td><td>65.178</td><td>65.180</td><td>65.182</td></tr><tr><td>40.0</td><td>65.169</td><td>65.168</td><td>65.171</td></tr><tr><td>50.0</td><td>65.153</td><td>65.156</td><td>65.158</td></tr><tr><td>54.0</td><td>65.150</td><td>65.148</td><td>65.154</td></tr><tr><td>59.4</td><td>65.141</td><td>65.146</td><td>65.149</td></tr></table>		Load Current [A]	Output Voltage [V]			Input Voltage 200[V]	Input Voltage 400[V]	Input Voltage 480[V]	0.0	65.161	65.158	65.162	5.0	65.187	65.193	65.192	10.0	65.190	65.193	65.199	15.0	65.200	65.204	65.206	20.0	65.195	65.195	65.198	25.0	65.190	65.194	65.196	30.0	65.178	65.180	65.182	40.0	65.169	65.168	65.171	50.0	65.153	65.156	65.158	54.0	65.150	65.148	65.154	59.4	65.141	65.146	65.149
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Object	+65V54A	Testing Circuitry	Figure C																																																			
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<div><div><div>Input Voltage</div><div>400V</div></div><div><div>Load</div><div>100%</div></div></div>  <p>50[mV/div]</p> <p>10[μs/div]</p>																																																						

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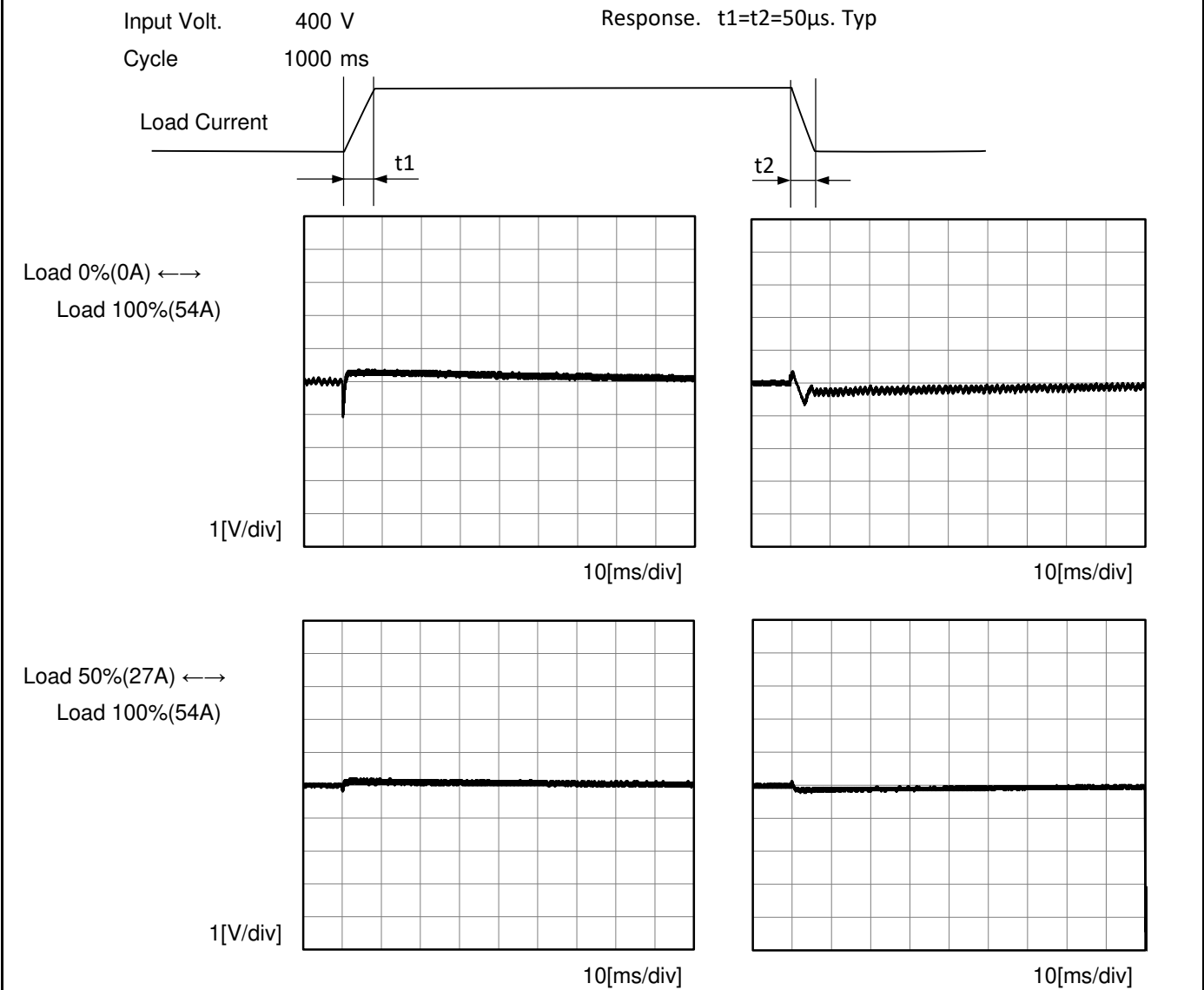
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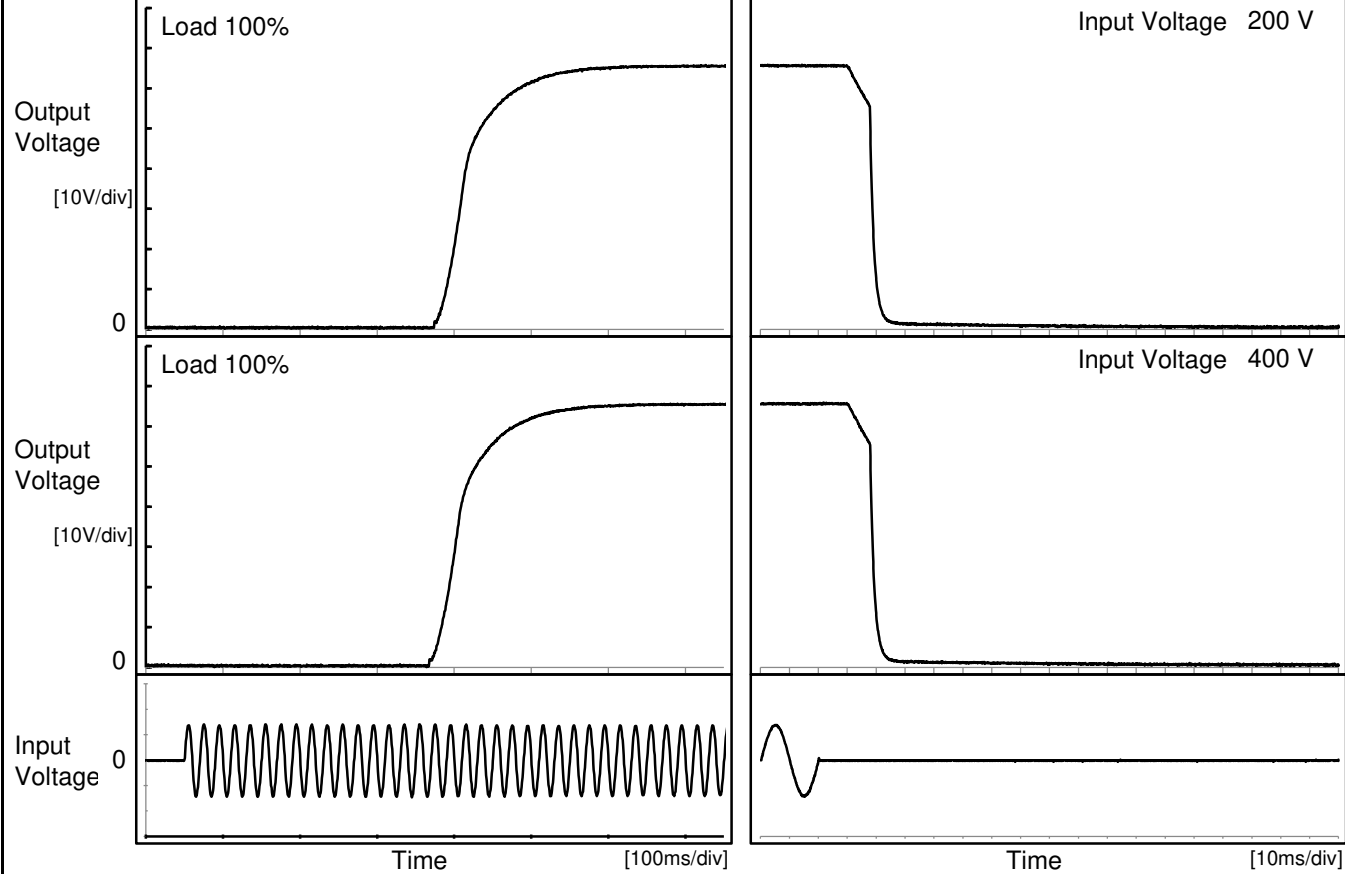
Model		HFA3500TF-65	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+65V54A	





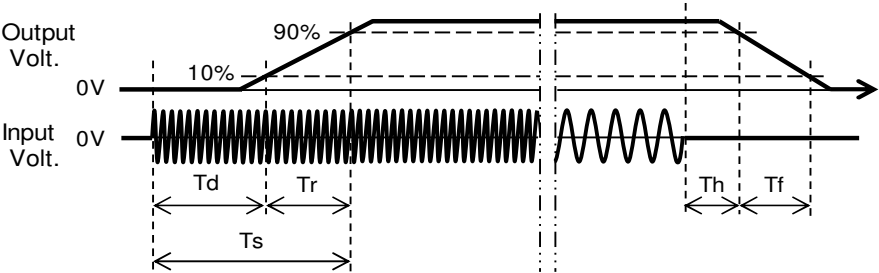
Model		HFA3500TF-65	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+65V54A	

1.Graph



2.Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
200 V		335.0	87.5	422.5	10.3	6.4
400 V		329.0	87.0	416.0	10.6	6.5



<div>Model</div> <div>HFA3500TF-65</div>		<div>Temperature</div> <div>25°C</div>																																	
<div>Item</div> <div>Hold-Up Time</div>		<div>Testing Circuitry</div> <div>Figure A</div>																																	
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<div>1.Graph</div> <div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>Load 50%</div><div>Load 100%</div></div></div><div><div><div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>150</div><div>300</div><div>450</div><div>600</div></div></div><div><div>Hold-Up Time [ms]</div><div>Input Voltage [V]</div></div></div></div>		<div>2.Values</div> <table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Hold-Up Time [ms]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>180</td><td>31</td><td>12</td></tr><tr><td>200</td><td>31</td><td>12</td></tr><tr><td>264</td><td>31</td><td>12</td></tr><tr><td>400</td><td>31</td><td>12</td></tr><tr><td>480</td><td>31</td><td>12</td></tr><tr><td>528</td><td>31</td><td>12</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	180	31	12	200	31	12	264	31	12	400	31	12	480	31	12	528	31	12	--	-	-	--	-	-	--	-	-
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<div><div>This duration covers from Shut-off of input voltage to the moment when output voltage drops to 95% of the rated voltage.</div><div>Note: Hatched line shows the range of the rated input voltage.</div></div>																																			

Model		HFA3500TF-65	Temperature25°C																																																				
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Object		+65V54A																																																					
1.Graph			2.Values																																																				
<div><div><div>—△—</div><div>Input Voltage 200V</div></div><div><div>---□---</div><div>Input Voltage 400V</div></div><div><div>-·-○-·-</div><div>Input Voltage 480V</div></div></div> <div><div><div>Instantaneous Compensation Time [ms]</div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>0</div><div>10</div><div>20</div><div>30</div><div>40</div><div>50</div><div>60</div><div>70</div></div><div><div>Load Current [A]</div></div></div>			<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</th></tr><tr><th>Input Voltage 200[V]</th><th>Input Voltage 400[V]</th><th>Input Voltage 480[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>5.0</td><td>171</td><td>188</td><td>188</td></tr><tr><td>10.0</td><td>82</td><td>91</td><td>90</td></tr><tr><td>20.0</td><td>43</td><td>44</td><td>44</td></tr><tr><td>25.0</td><td>33</td><td>33</td><td>33</td></tr><tr><td>30.0</td><td>27</td><td>27</td><td>26</td></tr><tr><td>40.0</td><td>17</td><td>17</td><td>17</td></tr><tr><td>50.0</td><td>12</td><td>12</td><td>12</td></tr><tr><td>54.0</td><td>10</td><td>10</td><td>10</td></tr><tr><td>59.5</td><td>8</td><td>8</td><td>8</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Time [ms]			Input Voltage 200[V]	Input Voltage 400[V]	Input Voltage 480[V]	0.0	-	-	-	5.0	171	188	188	10.0	82	91	90	20.0	43	44	44	25.0	33	33	33	30.0	27	27	26	40.0	17	17	17	50.0	12	12	12	54.0	10	10	10	59.5	8	8	8	--	-	-	-
Load Current [A]	Time [ms]																																																						
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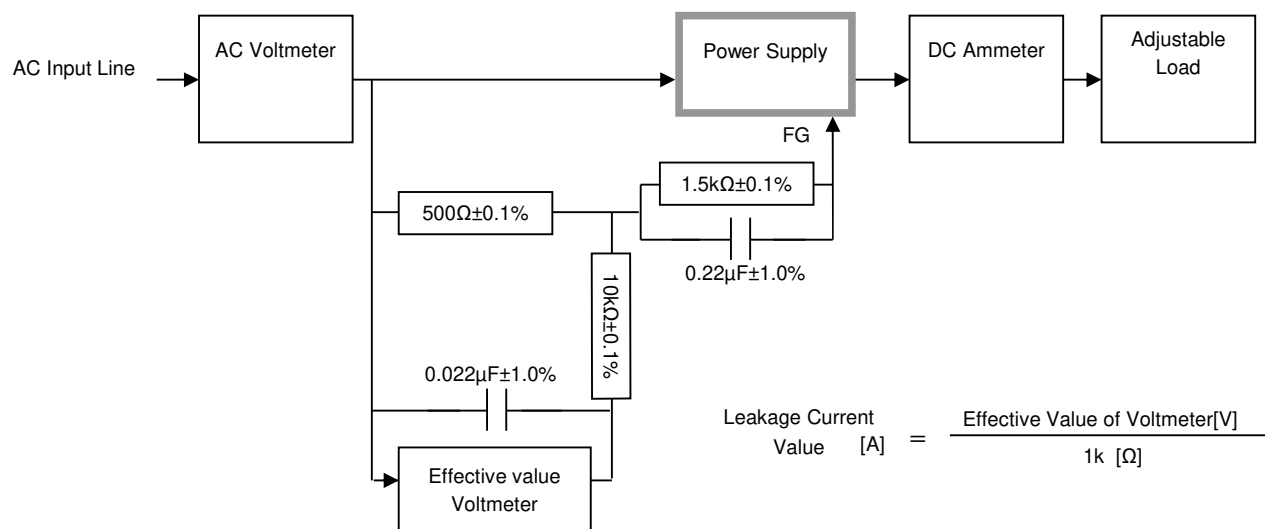
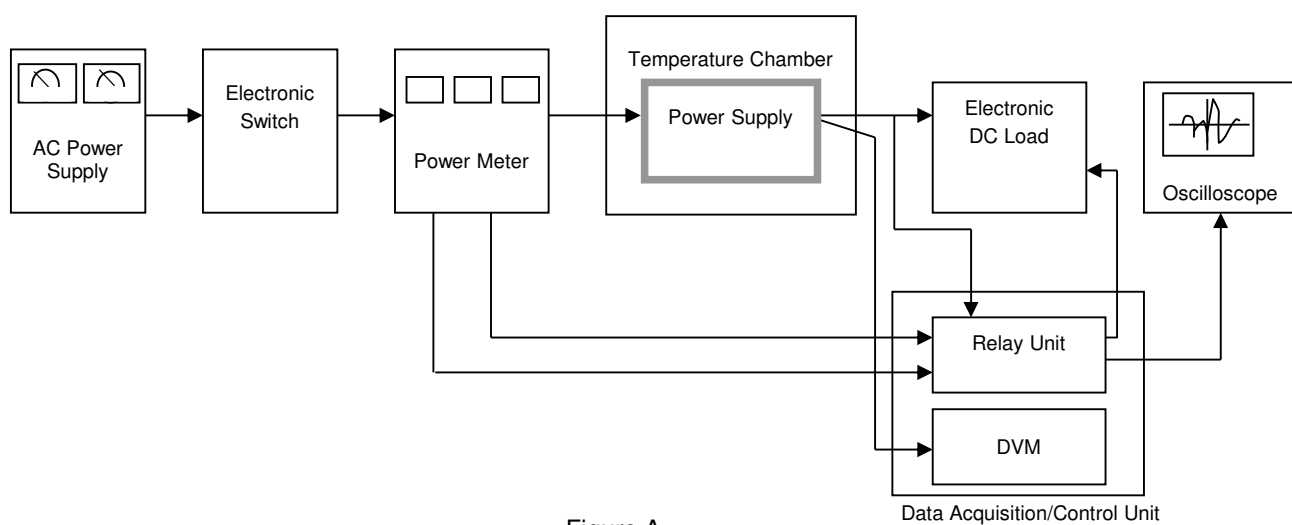


Figure B-1 (IEC62368-1)

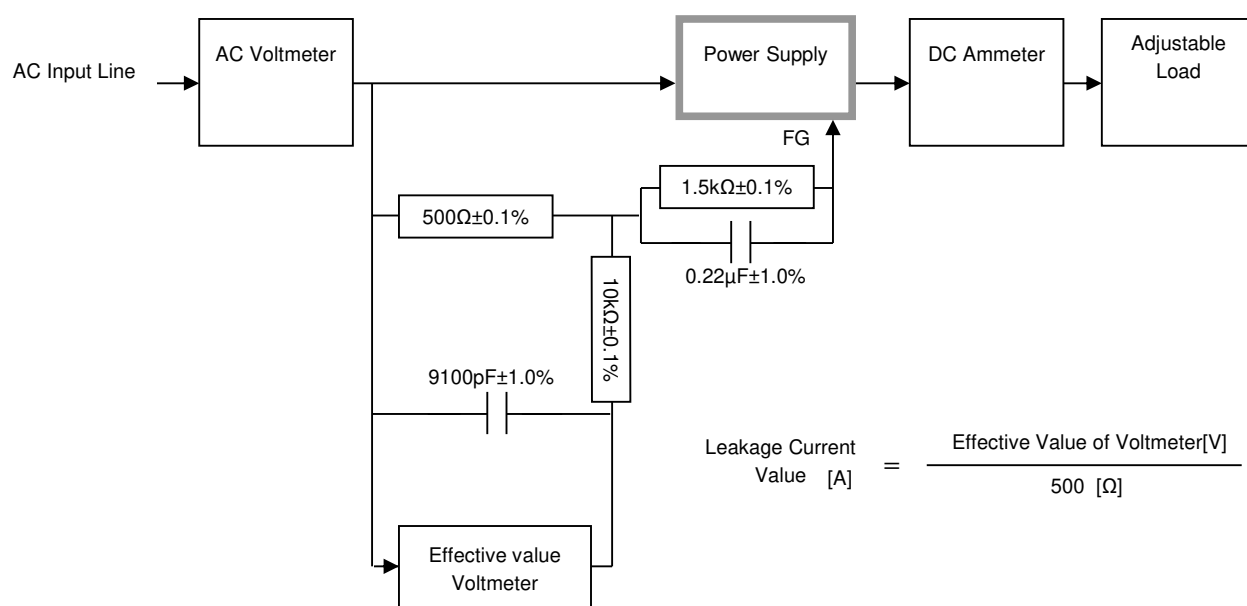


Figure B-2 (IEC62368-1)

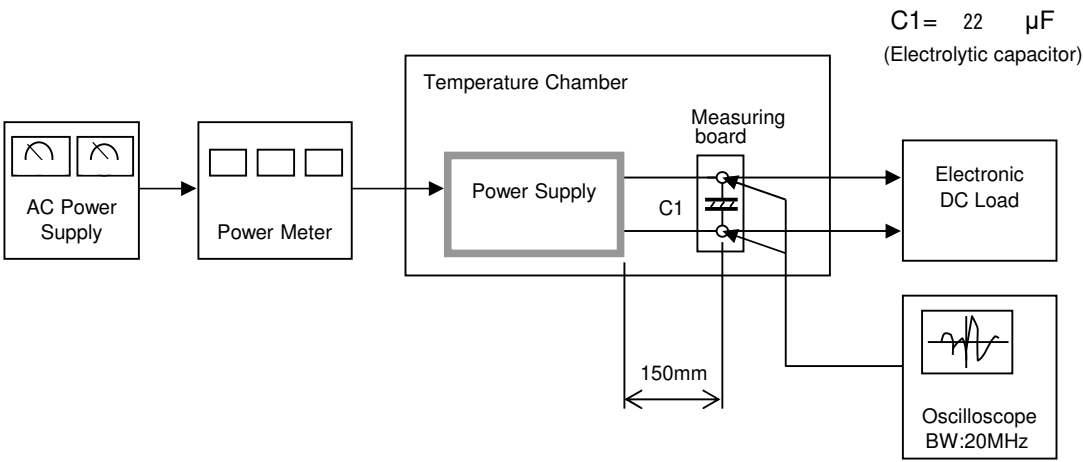


Figure C